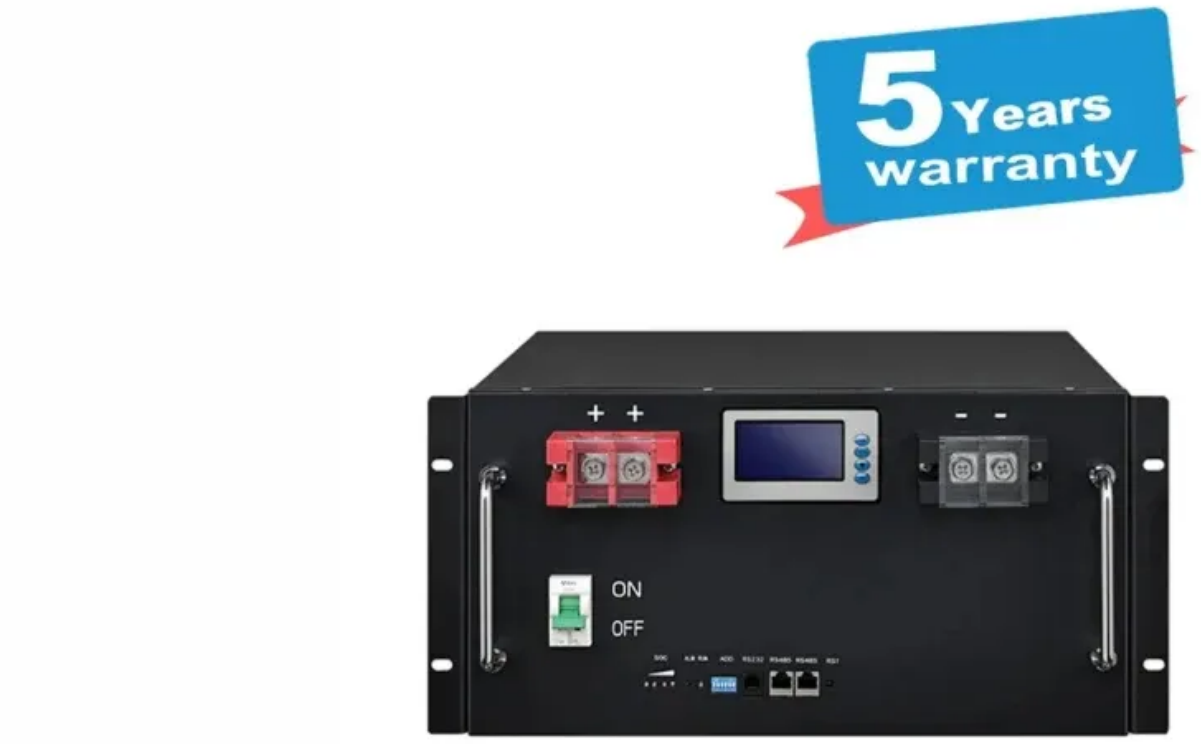
Concrete batteries in water



Overview

Off the coast of California, engineers are preparing to sink a hollow concrete sphere that works like an underwater battery. They're calling it StEnSea style storage. A 12-volt ec³ supercapacitor prototype is made by stacking ec³ electrodes sandwiched by porous separators soaked in electrolyte. It powered a 12V computer fan and a 5V video game console via USB. Image courtesy of the MIT ec³ hub, from the PNAS paper. This could turn ordinary walls, sidewalks, and bridges into batteries that store electricity. What Is a Concrete Battery?

This concrete is not like . Germany's Fraunhofer Institute, with its audacious StEnSea (Stored Energy in the Sea) project, is spearheading a radical new approach to energy storage: gigantic hollow concrete spheres -each weighing 400 tons-anchored 2,000 feet below the waves. These underwater titans are designed to harness the . Researchers at MIT are developing a new type of concrete that can transform roads and buildings into batteries (MIT) Buildings and roads built with a new type of concrete could soon serve as giant batteries capable of powering homes and electric vehicles.

Concrete batteries in water

The cement that could turn your house into a giant battery

On a laboratory bench in Cambridge, Massachusetts, a stack of polished cylinders of black-coloured concrete sit bathed in liquid and entwined in cables. To a casual observer, they aren't doing

MIT's Concrete Battery Now 10 Times Stronger-Walls That Store

Scientists mix cement, water, and tiny particles of carbon black to create a material that can conduct electricity. When they add a liquid called an electrolyte, this concrete can store and

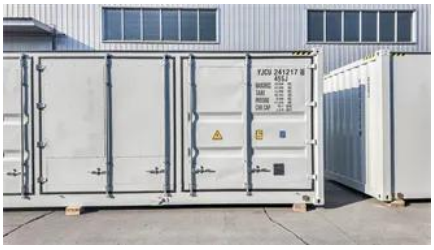
Self-healing 'concrete batteries' now 10 times better -

Called ec3, the material is made by combining cement and water with a liquid electrolyte and carbon powder - both readily available.

MIT scientists turn concrete into giant energy-storing batteries

Thanks to new advances in electron-conducting carbon concrete, known as ec3 (pronounced "e-c-cubed"), this futuristic idea is coming closer to reality. This special type of concrete

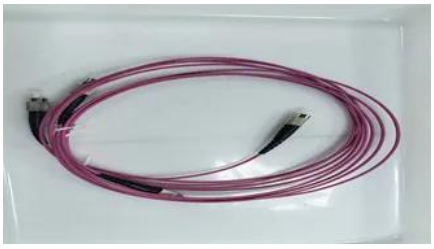
Concrete battery that can power homes is now 10 times better



Engineers are testing a massive underwater battery

Off the coast of California, engineers are preparing to sink a hollow concrete sphere that works like an underwater battery. They're calling it StEnSea style storage. The prototype will rest on

By experimenting with different electrolytes, including seawater, they were then able to find the optimal method to store energy. The technology holds the potential to massively scale-up

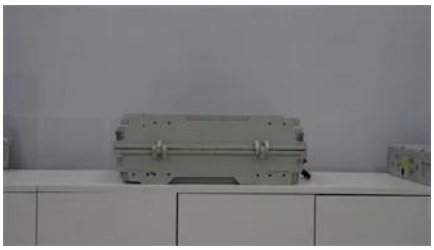


[Scientists Are Building Concrete Batteries on the Ocean Floor]

The undersea technology is called StEnSea (Stored Energy in the Sea). Giant concrete spheres anchored to the ocean floor are an innovative approach to the world's increasing energy needs.

[Concrete "battery" developed at MIT now packs 10 times the power]

New concrete and carbon black supercapacitors with optimized electrolytes have 10 times the energy storage of previous designs and can be incorporated into a wide range of architectural



MIT's concrete battery just got 10 times more powerful

That includes researchers at Massachusetts Institute of Technology (MIT), who found a way to combine cement, water, and carbon black to create a 'supercapacitor' for this purpose back in

Concrete Batteries Are Being Sunk Beneath the Sea. Are We

These underwater titans are designed to harness the immense pressure of the deep sea to store and release renewable energy. This isn't science fiction. It's the prototype of a global-scale,

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